ATTACHMENT C.3

GRID ANALYSIS – CHANGES IN OBJECTIVE FLOW VS. CHANGES IN FLOOD STORAGE

FIGURES - SACRAMENTO RIVER BASIN

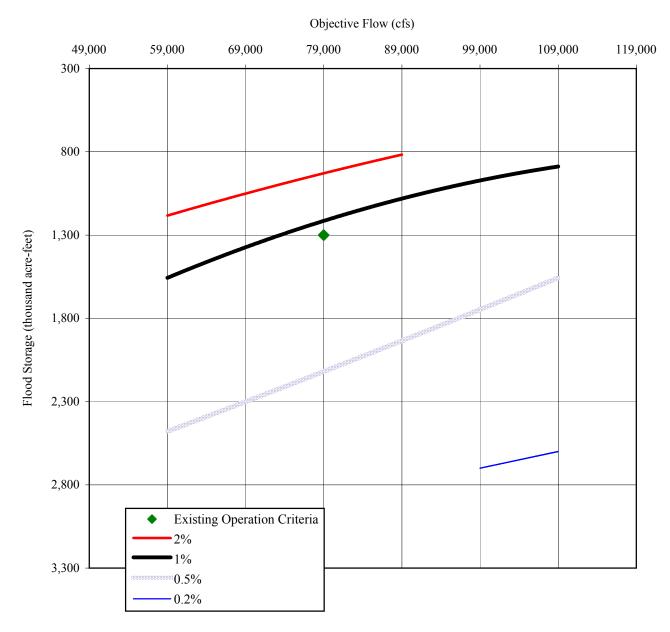
Figure C.3-1	Shasta Dam and Reservoir
Figure C.3-2	Black Butte Dam and Reservoir
Figure C.3-3	Oroville Dam and Reservoir
Figure C.3-4	New Bullards Bar Dam and Reservoir

FIGURES - SAN JOAQUIN RIVER BASIN

Figure C.3-5	Pine Flat Dam and Reservoir
Figure C.3-6	Friant Dam and Reservoir
Figure C.3-7	Hidden Dam and Reservoir
Figure C.3-8	Buchanan Dam and Reservoir
Figure C.3-9	New Exchequer Dam and Reservoir
Figure C.3-10	Don Pedro Dam and Reservoir
Figure C.3-11	New Melones Dam and Reservoir

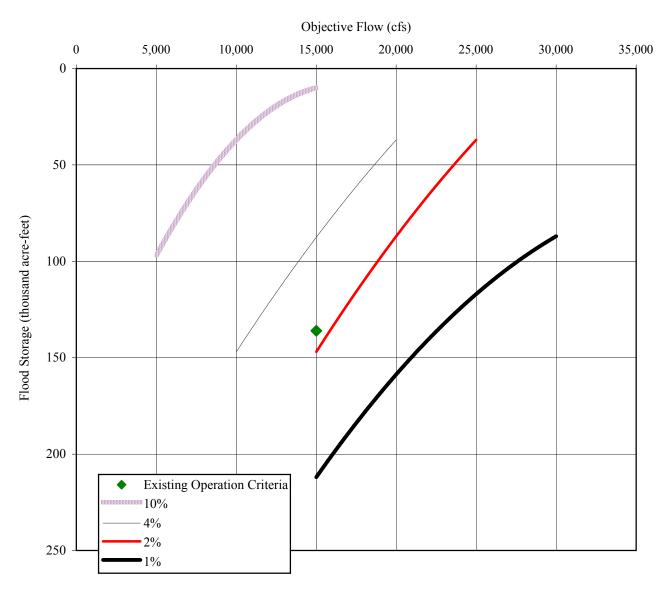
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Shasta Objective Flow vs. Flood Storage



- 1. Data representing the 50% and 10% chance exceedence events are not plotted because Shasta is capable of completely detaining inflows generated by events of these magnitudes.
- 2. Points above a curve indicate objective flows have been exceeded and values below a curve indicate objective flows have not been exceeded for a particular event.
- 3. Current objective flow = 79,000 cfs
- 4. Current maximum flood control storage = 1,300 TAF

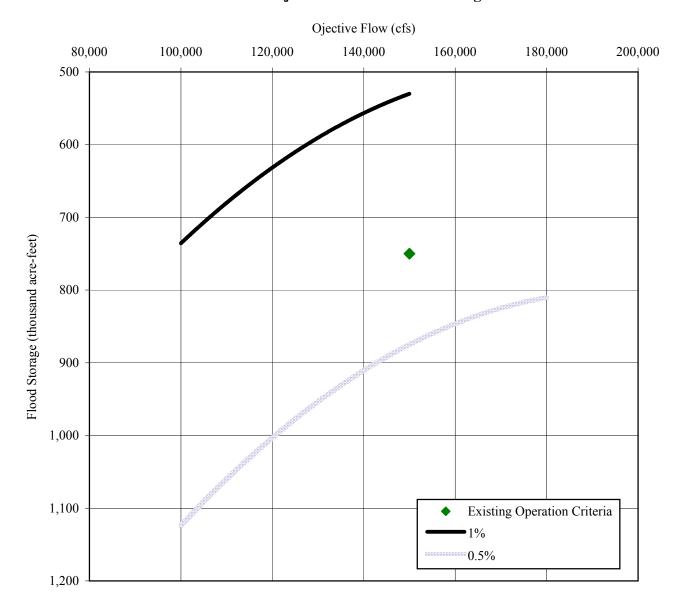
Black Butte Objective Flow vs. Flood Storage



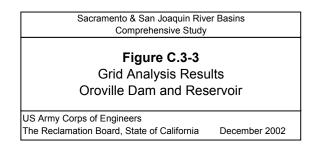
- 1. Data representing the 50% chance exceedence events is not plotted because Black Butte is capable of completely detaining inflows generated by events of this magnitude.
- 2. Data representing the 0.5% and 0.2% chance exceedence events is not plotted because Black Butte is incapable of completely detaining inflows generated by events of these magnitudes.
- 3. Points above a curve indicate objective flows have been exceeded and values below a curve indicate objective flows have not been exceeded for a particular event.
- 4. Current objective flow = 15,000 cfs
- 5. Current maximum flood storage = 136 TAF

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Figure C.3-2 Grid Analysis Results Black Butte Dam and Reservoir	
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Oroville Objective Flow vs. Flood Storage

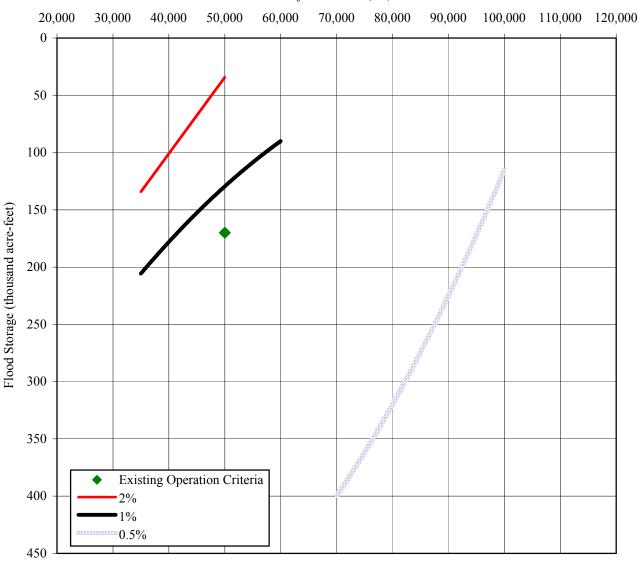


- 1. Data representing the 50%, 10%, 4%, and 2% chance exceedence events is not plotted because Oroville is capable of completely detaining inflows generated by events of these magnitudes.
- 2. Data representing the 0.2% chance exceedence event is not plotted because Oroville is incapable of completely detaining inflows generated by events of this magnitude.
- 3. Points above a curve indicate objective flows have been exceeded and values below a curve indicate objective flows have not been exceeded for a particular event.
- 4. Current objective flow = 150,000 cfs
- 5. Current maximum flood storage = 750 TAF



New Bullards Objective Flow vs. Flood Storage

Objective Flow (cfs)



Notes:

- 1. Data representing the 50%, 10%, and 4% chance exceedence events is not plotted because New Bullards is capable of completely detaining inflows generated by events of these magnitudes.
- 2. Data representing the 0.2% chance exceedence event is not plotted because New Bullards is incapable of completely detaining inflows generated by events of this magnitude.
- 3. Points above a curve indicate objective flows have been exceeded and values below a curve indicate objective flows have not been exceeded for a particular event.
- 4. Current objective flow = 50,000 cfs
- 5. Current maximum flood storage = 170 TAF

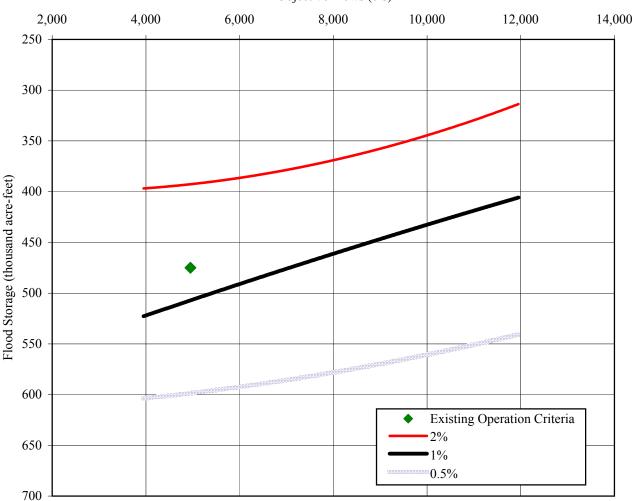
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Figure C.3-4
Grid Analysis Results
New Bullards Dam and Reservoir

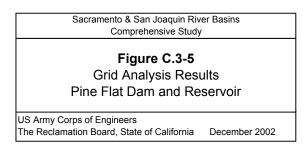
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Pine Flat Objective Flow vs. Flood Storage

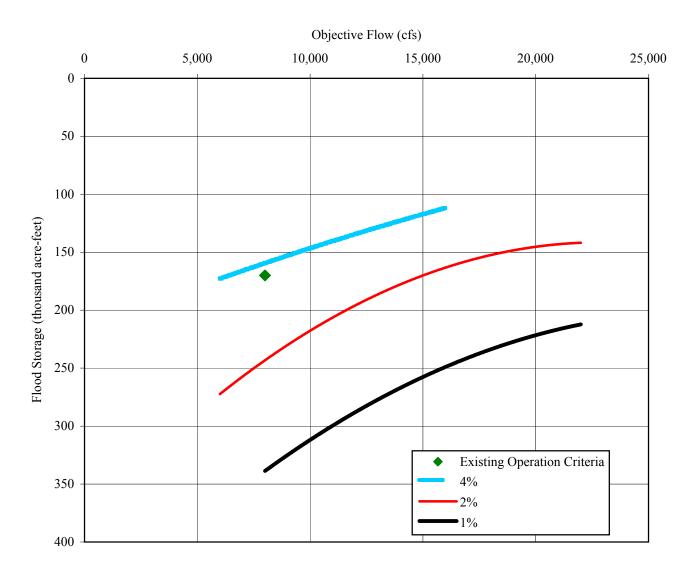




- 1. Data representing the 50%, 10%, and 4% chance exceedence events is not plotted because Pine Flat is capable of completely detaining inflows generated by events of these magnitudes.
- 2. Data representing the 0.2% chance exceedence event is not plotted because Pine Flat is incapable of completely detaining inflows generated by events of this magnitude.
- 3. Points above a curve indicate objective flows have been exceeded and values below a curve indicate objective flows have not been exceeded for a particular event.
- 4. Current objective flow = 4,950 cfs
- 5. Current maximum flood storage = 475 TAF



Friant Objective Flow vs. Flood Storage

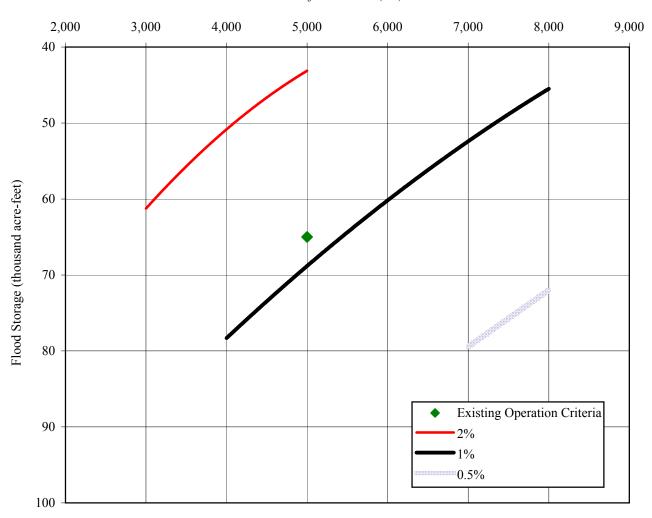


- 1. Data representing the 50% and 10% chance exceedence events is not plotted because Friant is capable of completely detaining inflows generated by events of this magnitude.
- 2. Data representing the 0.5% and 0.2% chance exceedence events is not plotted because Friant is incapable of completely detaining inflows generated by events of these magnitudes.
- 3. Points above a curve indicate objective flows have been exceeded and values below a curve indicate objective flows have not been exceeded for a particular event.
- 4. Current objective flow = 8,000 cfs
- 5. Current maximum flood storage = 170 TAF

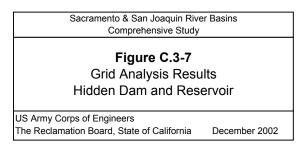
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Figure C.3-6 Grid Analysis Results Friant Dam and Reservoir	
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Hidden Objective Flow vs. Flood Storage

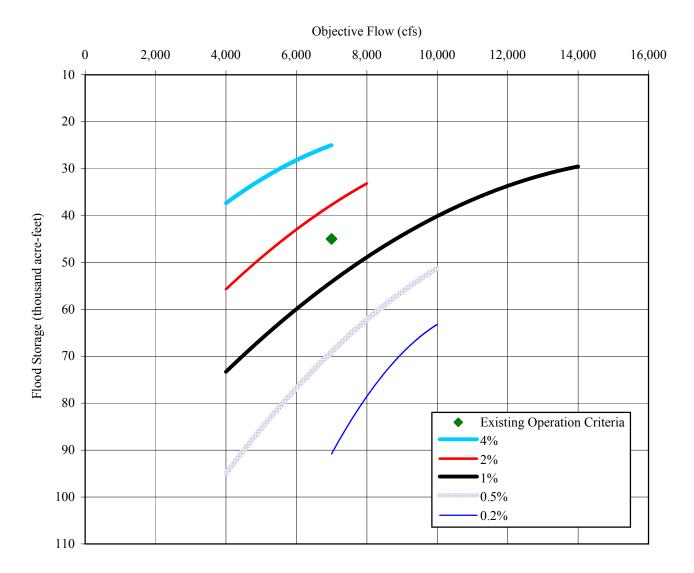




- 1. Data representing the 50%, 10%, and 4% chance exceedence events is not plotted because Hidden Dam is capable of completely detaining inflows generated by events of these magnitudes.
- 2. Data representing the 0.2% chance exceedence event is not plotted because Hidden Dam is incapable of completely detaining inflows generated by events of this magnitude.
- 3. Points above a curve indicate objective flows have been exceeded and values below a curve indicate objective flows have not been exceeded for a particular event.
- 4. Current objective flow = 5,000 cfs
- 5. Current maximum flood storage = 65 TAF



Buchanan Objective Flow vs. Flood Storage



Notes:

- 1. Data representing the 50% and 10% chance exceedence events is not plotted because Buchanan is capable of completely detaining inflows generated by events of these magnitudes.
- 2. Points above a curve indicate objective flows have been exceeded and values below a curve indicate objective flows have not been exceeded for a particular event.
- 3. Current objective release = 7,000 cfs
- 4. Current maximum flood storage = 45 TAF

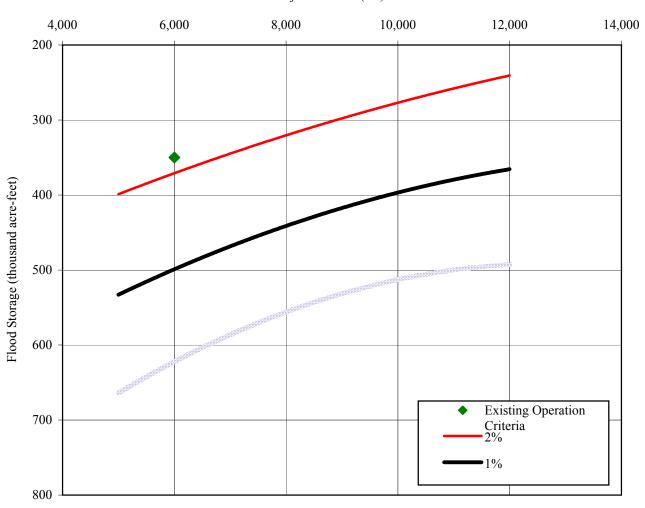
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Figure C.3-8
Grid Analysis Results
Buchanan Dam and Reservoir

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New Exchequer Objective Flow vs. Flood Storage

Objective Flow (cfs)



Notes:

- 1. Data representing the 50%, 10%, and 4% chance exceedence events is not plotted because New Exchequer is capable of completely detaining inflows generated by events of these magnitudes.
- 2. Data for the 0.2% chance exceedence event is not plotted because New Exchequer is incapable of completely detaining inflows generated by events of this magnitude.
- 3. Points above a curve indicate objective flows have been exceeded and values below a curve indicate objective flows have not been exceeded for a particular event.
- 4. Current objective flow = 6,000 cfs
- 5. Current maximum flood storage = 350 TAF

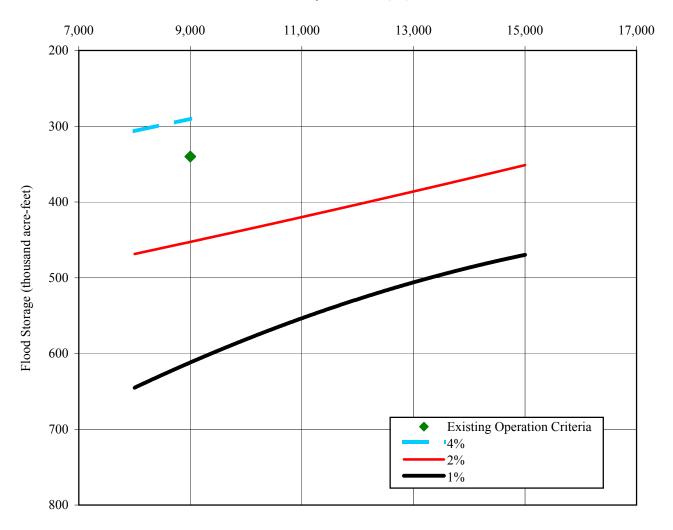
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Figure C.3-9
Grid Analysis Results
New Exchequer Dam and Reservoir

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Don Pedro Objective Flow vs. Flood Storage

Objective Flow (cfs)



Notes:

- 1. Data representing the 50% and 10% chance exceedence events are not plotted because Don Pedro is capable of completely detaining inflows generated by events of these magnitudes.
- 2. Data representing the 0.5% and 0.2% chance exceedence events are not plotted because Don Pedro is incapable of completely detaining inflows generated by events of these magnitudes.
- 3. Points above a curve indicate objective flows have been exceeded and values below a curve indicate objective flows have not been exceeded for a particular event.
- 4. Current objective flow = 9,000 cfs
- 5. Current maximum flood storage = 340 TAF

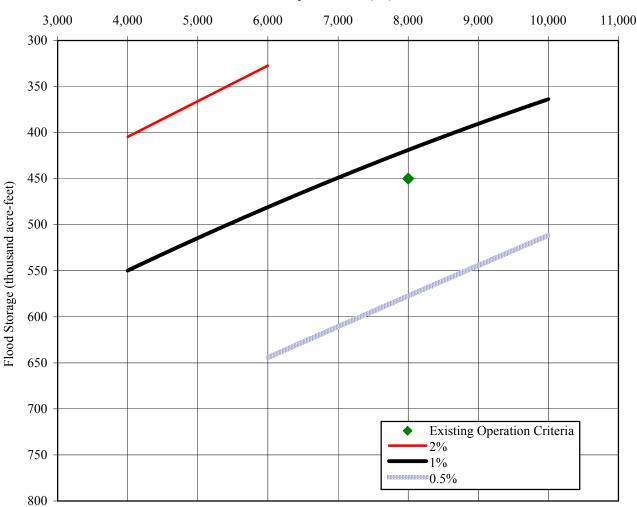
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Figure C.3-10
Grid Analysis Results
Don Pedro Dam and Reservoir

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New Melones Objective Flow vs. Flood Storage





Notes:

- 1. Data representing the 50%, 10%, and 4% chance exceedence events is not plotted because New Melones is capable of completely detaining inflows generated by events of these magnitudes.
- 2. Data representing the 0.2% chance exceedence event is not plotted because New Melones is incapable of completely detaining inflows generated by events of this magnitude.
- 3. Points above a curve indicate objective flows have been exceeded and values below a curve indicate objective flows have not been exceeded for a particular event.
- 4. Current objective flow = 8,000 cfs
- 5. Current maximum flood storage = 450 TAF

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Figure C.3-11
Grid Analysis Results
New Melones Dam and Reservoir

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